

Listing of Claims:

This listing of claims will replace all prior versions and listings of claims in the instant application.

1. – 55. (Cancelled)

56. (Previously Presented) A recombinant nucleic acid molecule that encodes a chimeric AgfA fimbrin polypeptide comprising at least one heterologous antigen, wherein said nucleic acid molecule encodes a chimeric polypeptide selected from the group consisting of SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, SEQ ID NO:24, SEQ ID NO:26, SEQ ID NO:28, and SEQ ID NO:30.

57. (Previously Presented) The recombinant nucleic acid molecule according to claim 56 wherein said recombinant nucleic acid molecule is present in an expression vector, said expression vector producing the chimeric polypeptide when expressed in a host cell.

58. (Previously Presented) A host cell comprising the recombinant nucleic acid molecule according to claim 57 wherein said host cell produces the chimeric polypeptide.

59. (Previously Presented) The host cell according to claim 58 wherein said host cell produces stable fimbriae comprising the chimeric polypeptide.

60. - 64 (Cancelled)

65. (Currently Amended) The host cell according to claim 58 or claim 59 wherein said host cell is selected from the group consisting of a strain of Enterobacteriaceae, Enterobacteriaceae, Escherichia coli Escherichia coli, and Salmonella Salmonella.

66. (Previously Presented) The recombinant nucleic acid molecule according to claim 56 wherein said recombinant nucleic acid molecule is in the chromosome of a host cell.

67. (Previously Presented) The recombinant nucleic acid molecule according to claim 66 wherein said host cell produces the chimeric polypeptide.

68. (Previously Presented) The recombinant nucleic acid molecule according to claim 66 wherein said host cell produces stable fimbriae comprising the chimeric polypeptide.

69. – 73. (Cancelled)

74. (Currently Amended) The recombinant nucleic acid molecule according to any one of claims 66-68 wherein said host cell is selected from the group consisting of a strain of Enterobacteriaceae Enterobacteriaceae, Escherichia coli Escherichia coli, and Salmonella Salmonella.